

## WHAT IS CLAIMED IS

1. A valve-operating system for an internal combustion engine, comprising a rocker arm (18A, 18B) having a valve abutment (15) abutting against an engine valve (6) and a cam abutment (17) contacting with a valve-operating cam (16), and a pair of link arms (19A and 20A; 19B and 20B) each of which is supported at one end thereof on an engine body (1) for swinging movement about an axis parallel to a rotational axis for said valve-operating cam (16) and connected at the other end directly to said rocker arm (18A, 18B) for relative turning movement about an axis parallel to said rotational axis, said one end of at least any one of said link arms (19A and 20A; 19B and 20B) being swingably supported on said engine body (1) for continuous movement within a plane perpendicular to the rotational axis for said valve-operating cam (16).

2. A valve-operating system for an internal combustion engine according to claim 1, wherein said link arms (19A and 20A; 19B and 20B) are connected at the other ends in a row and relatively turnably to the other end of said rocker arm (18A, 18B) provided at one end thereof with said valve abutment (15).

3. A valve-operating system for an internal combustion engine according to claim 1 or 2, wherein one (19A, 19B) of said link arms (19A and 20A; 19B and 20B) closer to said valve-operating cam (16) is swingably supported at one end thereof on the engine body (1) in a fixed position, and one (20A, 20B) of said link

arms (19A and 20A; 19B and 20B) farther from said valve-operating cam (16) is swingably supported at one end thereof movable on the engine body (1).

4. A valve-operating system for an internal combustion engine  
5 according to claim 1 or 2, wherein the roller (17) as said cam abutment is turnably supported on a cylindrical support tube (21) mounted on said rocker arm (18A, 18B) and having an axis parallel to said rotational axis for said valve-operating cam (16), and one (19A, 19B) of said link arms (19A and 20A; 19B  
10 and 20B) is connected at the other end to said support tube (21).

5. A valve-operating system for an internal combustion engine according to claim 4, wherein the other (20A) of said link arms (19A and 20A) is connected at the other end to said rocker arm (18A) above the roller (17) through a connecting shaft (24)  
15 parallel to the roller (17), and the support tube (21) and the connecting shaft (24) are disposed to extend in an input direction from the valve-operating cam (16) to said rocker arm (18A).

6. A valve-operating system for an internal combustion engine  
20 according to claim 3, wherein the roller (17) as said cam abutment is turnably supported on a cylindrical support tube (21) mounted on said rocker arm (18A, 18B) and having an axis parallel to a rotational axis for said valve-operating cam (16), and one (19A, 19B) of said link arms (19A and 20A; 19B and 20B)  
25 closer to said valve-operating cam (16) is connected at the other end to said support tube (21).

7. A valve-operating system for an internal combustion engine according to claim 6, wherein one (20A) of said link arms (19A and 20A) farther from said valve-operating cam (16) is connected at the other end to said rocker arm (18A) above the roller (17) through a connecting shaft (24) parallel to the roller (17), and the support tube (21) and the connecting shaft (24) are disposed to extend in an input direction from the valve-operating cam (16) to said rocker arm (18A).

8. A valve-operating system for an internal combustion engine according to claim 4, wherein the other (20B) of said link arms (19B and 20B) is connected at the other end to said rocker arm (18B) below said roller (17) through a connecting shaft (24) parallel to said roller (17), and the support tube (21) and the connecting shaft (24) are disposed to extend in an input direction from the valve-operating cam (16) to said rocker arm (18A).

9. A valve-operating system for an internal combustion engine according to claim 6, wherein one (20B) of said link arms (19B and 20B) farther from said valve-operating cam (16) is connected at the other end to said rocker arm (18B) above said roller (17) through a connecting shaft (24) parallel to said roller (17), and the support tube (21) and the connecting shaft (24) are disposed to extend in an input direction from the valve-operating cam (16) to said rocker arm (18B).

10. A valve-operating system for an internal combustion engine according to claim 1 or 2, wherein one ends of said link arms

(19A and 20A; 19B and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19A and 20A; 19B and 20B).

11. A valve-operating system for an internal combustion engine  
5 according to claim 3, wherein one ends of said link arms (19A and 20A; 19B and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19A and 20A; 19B and 20B).

12. A valve-operating system for an internal combustion engine  
10 according to claim 4, wherein one ends of said link arms (19A and 20A; 19B and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19A and 20A; 19B and 20B).

13. A valve-operating system for an internal combustion engine  
15 according to claim 5, wherein one ends of said link arms (19A and 20A) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19A and 20A).

14. A valve-operating system for an internal combustion engine  
20 according to claim 6, wherein one ends of said link arms (19B and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19B and 20B).

15. A valve-operating system for an internal combustion engine  
25 according to claim 7, wherein one ends of said link arms (19B and 20B) are disposed on a side opposite from said engine valve

(6) with respect to the other ends of said link arms (19B and 20B).

16. A valve-operating system for an internal combustion engine according to claim 8, wherein one ends of said link arms (19B  
5 and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19B and 20B).

17. A valve-operating system for an internal combustion engine according to claim 9, wherein one ends of said link arms (19B  
10 and 20B) are disposed on a side opposite from said engine valve (6) with respect to the other ends of said link arms (19B and 20B).